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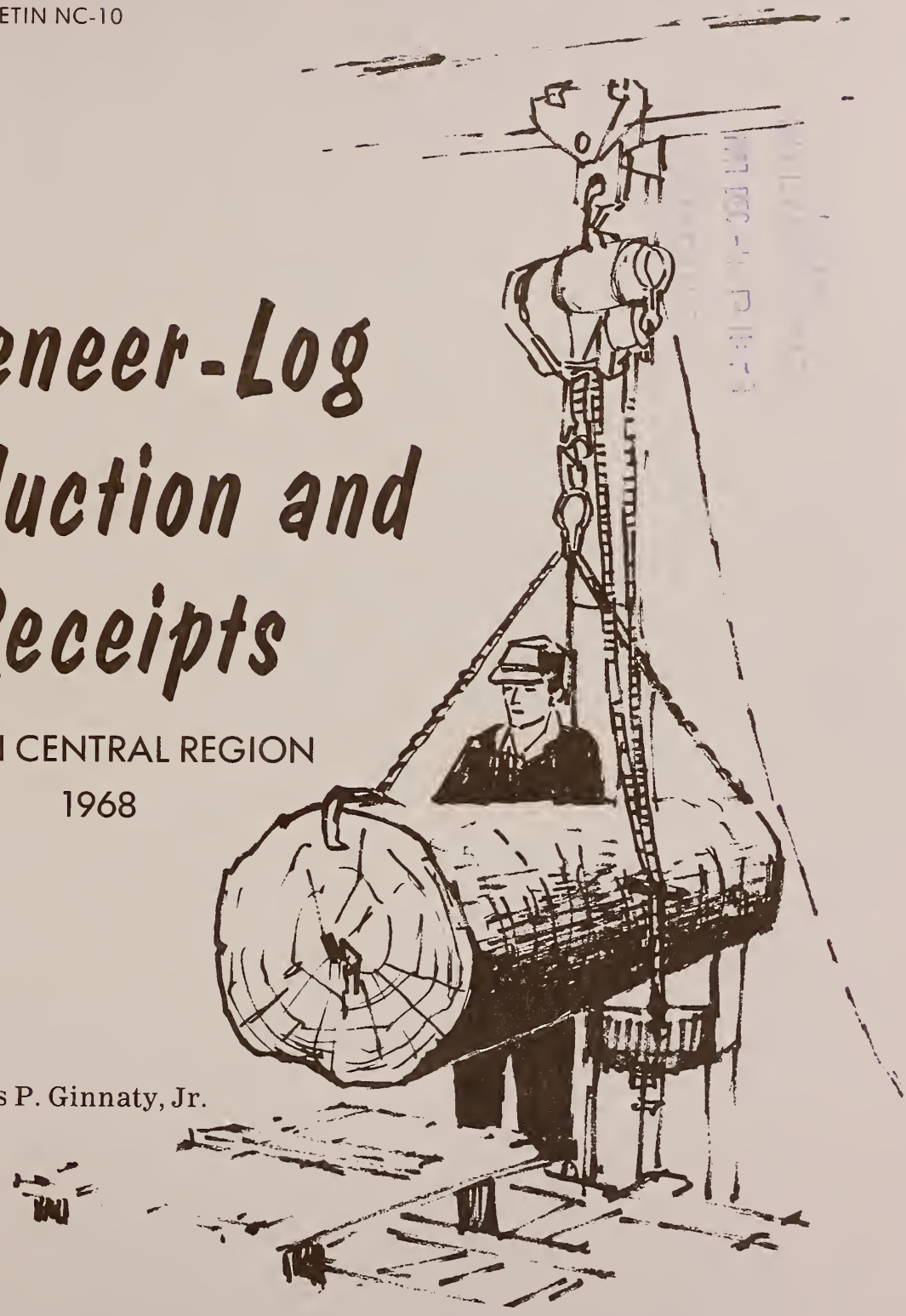
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Veneer-Log Production and Receipts

NORTH CENTRAL REGION
1968

Thomas P. Ginnaty, Jr.



NORTH CENTRAL FOREST EXPERIMENT STATION
FOREST SERVICE
U. S. DEPARTMENT OF AGRICULTURE

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ST. PAUL, MINNESOTA 55101**

Ginnaty, Thomas P., Jr.

1970. Veneer-log production and receipts, North Central Region, 1968. N. Cent. Forest Exp. Sta., St. Paul, Minn. 8 p. illus. (U.S.D.A. Forest Serv. Resource Bull. NC-10)

The 1968 veneer-log production and mill receipts were 45.5 and 47.6 million board feet, respectively, in the Lake States — declines of 11 and 14 percent, respectively, since 1966. The Central States produced 37.0 million board feet of logs and received 48.8 million — about the same as in 1966.

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Veneer-Log Production and Receipts, North Central Region, 1968

Thomas P. Ginnaty, Jr.

This report of 1968 veneer-log production¹ and receipts in the North Central Region is divided into two sections – Lake States (Minnesota, Wisconsin, and Michigan) and Central States (Indiana, Illinois, Iowa, and Missouri) – because the species grown and used in each area are different. In the Lake States hard maple, elm, basswood, red oak, and yellow birch dominate while in the Central States the hickories, the oaks, and

walnut are more common.

Cooperation by most of the 42 standard and 29 container veneer mills in the North Central Region made this report possible (fig. 1, table 1). All but two mills reported their 1968 veneer-log receipts by species and State of origin. Receipts were estimated for the nonreporting mills. This paper does not include data on exports except those to Canada.

LAKE STATES

Production

Loggers in the Lake States harvested 45.5 million board feet of veneer logs in 1968, only 89 percent of that produced in 1966 (table 2). Thus the trend continues downward (fig. 2), although it has been more gradual since 1958. Hard maple continues to be the leading species cut, with yellow birch, red oak, and elm following in order of volume. Most of the volume harvested (40.6 million board feet) was used by mills cutting commercial, utility, and face veneers for doors, furniture, wall panels, specialty plywood, and similar items. The rest was used in the manufacture of boxes, baskets, and other containers. An additional 2,000 cords of heading stock were used by the container industry.

Wisconsin produced 21.0 million board feet of veneer logs. Red oak, hard maple, and elm accounted for 30, 19, and 15 percent, respectively. Wisconsin mills used

nine-tenths of the veneer logs produced within the State and two-thirds of the total volume produced in the Lake States.

Michigan harvested 19.3 million board feet of veneer logs. Of the total, 32 percent was yellow birch and 28 percent was hard maple. Only 43 percent of the veneer logs produced was retained in Michigan while 42 percent was shipped to Wisconsin and 15 percent to other States. Michigan exported 67 and 43 percent of its yellow birch and hard maple logs, respectively, to Wisconsin.

Minnesota, while only harvesting 5.2 million board feet of veneer logs, shipped 68 percent of it to Wisconsin mills. Nine percent was retained and processed within the State. Three percent went to Michigan and the remainder was shipped to other States. Major species cut were red oak and elm.

The Lake States exported 5.8 million board feet of veneer logs in 1968 of which nine-tenths was shipped to Central States mills. The dominant species exported were walnut (1.7 million board feet or all the walnut produced) and hard maple (1.6 million board feet).

¹ Production is the volume of veneer logs cut from a specific area; receipts are the volume of veneer logs received by mills in a specific area regardless of the geographic source.

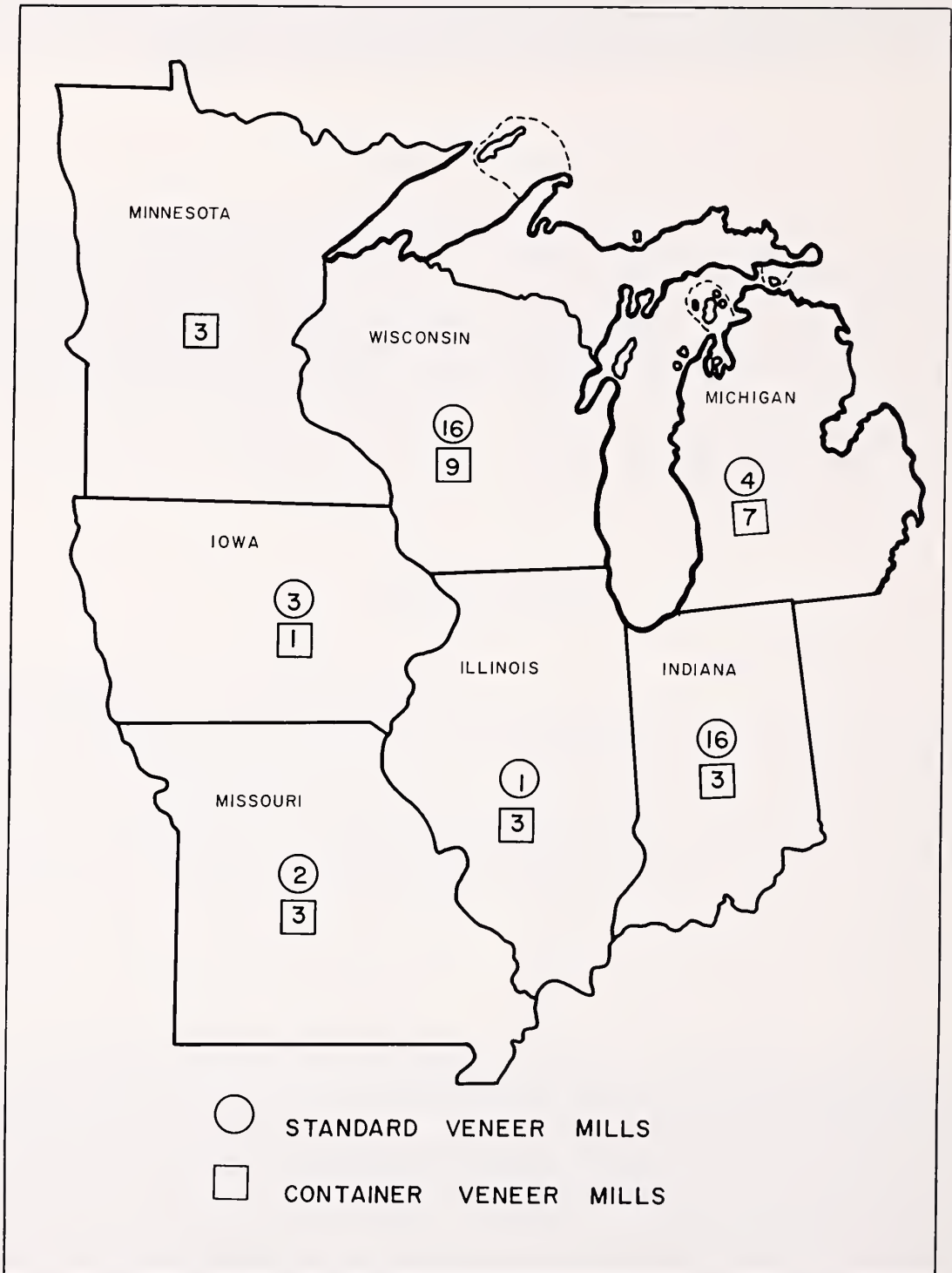


Figure 1. – Distribution of active veneer mills in the North Central States by State and type of mill, 1968.

Table I. - Active Veneer Mills in the North Central States by State and type of mill, 1968

MINNESOTA

| Type of mill | Number | Name of mill | Location |
|--------------|--------|--------------------------------|------------------|
| Standard | None | | |
| Container | 1 | Bren Berry Box Mfg. Co. | Hopkins |
| | 2 | Elk River Box Co. | Elk River |
| | 3 | Wahkon Veneer Mills | Wahkon |
| WISCONSIN | | | |
| Standard | 1 | Birchwood Lumber & Veneer Co. | Birchwood |
| | 2 | Birchwood Mfg. Co. | Rice Lake |
| | 3 | Calumet & Hecia, Inc. | Goodman |
| | 4 | Calumet & Hecia, Inc. | Mellen |
| | 5 | Eggers Plywood Co. | Two Rivers |
| | 6 | General Plywood Corp. | Antigo |
| | 7 | Gillette Veneer & Plywood Co. | Gillett |
| | 8 | Hatley Veneer Co., Inc. | Hatley |
| | 9 | Larson Plywood Co., Inc. | Sheboygan |
| | 10 | Linwood, Inc. | Gillett |
| | 11 | Marion Plywood Corp. | Marion |
| | 12 | Northern Hardwood Veneer, Inc. | Butternut |
| | 13 | U.S. Plywood Corp. | Algoma |
| | 14 | Weber Veneer & Plywood Co. | Shawano |
| | 15 | Weyerhaeuser Co. | Marshfield |
| | 16 | Wisconsin Timber & Land Co. | Mattoon |
| Container | 1 | Brunette Box & Veneer Co. | Rice Lake |
| | 2 | Cooley Mfg. Co. | West Bend |
| | 3 | Duffeck Mfg. Co. | Denmark |
| | 4 | Ebner Box Factory | Cameron |
| | 5 | Konz Container Co. | Howard Grove |
| | 6 | Millersville Box Co. | Sheboygan |
| | 7 | Seymour Woodware Co. | Seymour |
| | 8 | Standard Container Co. | Edgar |
| | 9 | Wauzeka Box Co. | Wauzeka |
| MICHIGAN | | | |
| Standard | 1 | Birdseye Veneer & Plywood Co. | Escanaba |
| | 2 | Manthei Bros. | Petoskey |
| | 3 | Plycoma Veneer Co. | Nashville |
| | 4 | Soo Veneer Co. | Sault Ste. Marie |
| Container | 1 | A. C. Hensel Mfg. Co. | Augusta |
| | 2 | American Made Veneer | Kalkaska |
| | 3 | Anderson Container Corp. | Stevensville |
| | 4 | Anthony & Co. | Escanaba |
| | 5 | Fruit Growers Package Co. | Paw Paw |
| | 6 | Riverside Package Co. | Riverside |
| | 7 | Walkinshaw Package Co. | Shelby |

| Type of mill | Number | Name of mill | Location |
|--------------|--------|-----------------------------------|----------------|
| IOWA | | | |
| Standard | 1 | Manchester Industries, Inc. | Manchester |
| | 2 | R. S. Bacon Veneer Co. | Dubuque |
| | 3 | Spencer Hardwood Lumber Co. | Spencer |
| Container | 1 | Burlington Basket Co. | Burlington |
| MISSOURI | | | |
| Standard | 1 | Enterprise Veneer Corp. | Pleasant Hill |
| | 2 | Missouri Valley Walnut Co. | St. Joseph |
| Container | 1 | Betz Tipton Veneer Co. | Caruthersville |
| | 2 | Crumbliss Wood Products | Neosho |
| | 3 | Neosho Box & Wood Products | Neosho |
| ILLINOIS | | | |
| Standard | 1 | Swords Veneer & Lumber Co. | Rock Island |
| Container | 1 | Cobden Box & Basket Co. | Cobden |
| | 2 | Dongola Veneer Co., Inc. | Dongola |
| | 3 | Main Brothers Box & Lbr. Co. | Karnak |
| INDIANA | | | |
| Standard | 1 | Amos-Thompson Corp. | Edinburg |
| | 2 | B. L. Curry & Sons | New Albany |
| | 3 | Central Veneer, Inc. | Indianapolis |
| | 4 | Chester B. Stem, Inc. | New Albany |
| | 5 | Curry Miller Veneers, Inc. | Indianapolis |
| | 6 | David R. Webb Co. | Edinburg |
| | 7 | Evansville Veneer Co. | Evansville |
| | 8 | Hill Brothers Veneer Co., Inc. | Edinburg |
| | 9 | Hoosier Veneer Co., Inc. | Indianapolis |
| | 10 | Indiana Veneer, Inc. | Indianapolis |
| | 11 | Jasper Veneer Mills | Jasper |
| | 12 | Mitchell Industries | Greensburg |
| | 13 | National Veneer & Lumber Co. | Seymour |
| | 14 | Pierson-Holwell Co., Inc. | Lawrenceburg |
| | 15 | Roberts & Strack Veneer Co. | Clarksville |
| | 16 | Theising Veneer Co., Inc. | Mooreville |
| Container | 1 | Farrel Box Co., Inc. | Decker |
| | 2 | New Albany Box & Basket Co., Inc. | New Albany |
| | 3 | W. C. Redmon Sons, Inc. | Peru |

Table 2. — Production and imports of veneer logs, Lake States, 1968
(Thousand board feet, International ¼-inch rule)

| Species and destination | Production (Quantity of veneer logs cut in each State) | | | | Imports | | | Lake States receipts ^{1/} |
|-------------------------|---|-----------|----------|--------------|--------------|--------|---------------|------------------------------------|
| | Minnesota | Wisconsin | Michigan | Region total | Other States | Canada | Total imports | |
| Aspen | | | | | | | | |
| Minnesota | 13 | -- | -- | 13 | -- | -- | -- | 13 |
| Wisconsin | 2 | 381 | 47 | 430 | -- | -- | -- | 430 |
| Michigan | -- | -- | 173 | 173 | -- | -- | -- | 173 |
| Total | 15 | 381 | 220 | 616 | -- | -- | -- | 616 |
| Ash ^{2/} | | | | | | | | |
| Minnesota | 110 | -- | -- | 110 | -- | -- | -- | 110 |
| Wisconsin | 22 | 453 | 44 | 519 | 27 | -- | 27 | 546 |
| Michigan | -- | -- | 328 | 328 | 24 | -- | 24 | 352 |
| Outside Lake States | -- | 8 | 11 | 19 | -- | -- | -- | -- |
| Total | 132 | 461 | 383 | 976 | 51 | -- | 51 | 1,008 |
| Basswood | | | | | | | | |
| Minnesota | 92 | -- | -- | 92 | -- | -- | -- | 92 |
| Wisconsin | 723 | 2,039 | 256 | 3,018 | 312 | -- | 312 | 3,330 |
| Michigan | -- | 56 | 435 | 491 | -- | -- | -- | 491 |
| Outside Lake States | -- | 13 | 23 | 36 | -- | -- | -- | -- |
| Total | 815 | 2,108 | 714 | 3,637 | 312 | -- | 312 | 3,913 |
| Beech | | | | | | | | |
| Wisconsin | -- | 39 | 79 | 118 | -- | -- | -- | 118 |
| Michigan | -- | -- | 374 | 374 | -- | -- | -- | 374 |
| Total | -- | 39 | 453 | 492 | -- | -- | -- | 492 |
| White birch | | | | | | | | |
| Minnesota | 27 | -- | -- | 27 | -- | -- | -- | 27 |
| Wisconsin | 116 | 34 | 28 | 178 | -- | 1,916 | 1,916 | 2,094 |
| Michigan | 173 | -- | 1,475 | 1,648 | -- | 242 | 242 | 1,890 |
| Total | 316 | 34 | 1,503 | 1,853 | -- | 2,158 | 2,158 | 4,011 |
| Yellow birch | | | | | | | | |
| Minnesota | 3 | -- | -- | 3 | -- | -- | -- | 3 |
| Wisconsin | 309 | 1,751 | 4,129 | 6,189 | -- | 1,824 | 1,824 | 8,013 |
| Michigan | -- | 89 | 1,929 | 2,018 | -- | 168 | 168 | 2,186 |
| Outside Lake States | -- | 23 | 91 | 114 | -- | -- | -- | -- |
| Total | 312 | 1,863 | 6,149 | 8,324 | -- | 1,992 | 1,992 | 10,202 |
| Butternut | | | | | | | | |
| Minnesota | 3 | -- | -- | 3 | -- | -- | -- | 3 |
| Wisconsin | 1 | 11 | -- | 12 | -- | -- | -- | 12 |
| Outside Lake States | 44 | 384 | 1 | 429 | -- | -- | -- | -- |
| Total | 48 | 395 | 1 | 444 | -- | -- | -- | 15 |
| Black cherry | | | | | | | | |
| Wisconsin | -- | 44 | 21 | 65 | -- | -- | -- | 65 |
| Michigan | -- | 10 | 151 | 161 | 12 | -- | 12 | 173 |
| Outside Lake States | 16 | 19 | 31 | 66 | -- | -- | -- | -- |
| Total | 16 | 73 | 203 | 292 | 12 | -- | 12 | 238 |
| Cottonwood | | | | | | | | |
| Minnesota | 103 | -- | -- | 103 | -- | -- | -- | 103 |
| Wisconsin | 699 | 200 | -- | 899 | 593 | -- | 593 | 1,492 |
| Michigan | -- | -- | 439 | 439 | 58 | -- | 58 | 497 |
| Total | 802 | 200 | 439 | 1,441 | 651 | -- | 651 | 2,092 |

(Continued on next page)

Table 2 continued

| Species and destination | Production (Quantity of veneer logs cut in each State) | | | | Imports | | | Lake States receipts ^{1/} |
|-------------------------|---|-----------|----------|--------------|--------------|--------|---------------|------------------------------------|
| | Minnesota | Wisconsin | Michigan | Region total | Other States | Canada | Total imports | |
| Elm | | | | | | | | |
| Minnesota | 32 | -- | -- | 32 | -- | -- | -- | 32 |
| Wisconsin | 710 | 2,972 | 558 | 4,240 | 370 | -- | 370 | 4,610 |
| Michigan | -- | 16 | 573 | 589 | -- | -- | -- | 589 |
| Outside Lake States | 182 | 235 | 81 | 498 | -- | -- | -- | -- |
| Total | 924 | 3,223 | 1,212 | 5,359 | 370 | -- | 370 | 5,231 |
| Hickory | | | | | | | | |
| Michigan | -- | -- | 172 | 172 | 182 | -- | 182 | 354 |
| Outside Lake States | -- | -- | 21 | 21 | -- | -- | -- | -- |
| Total | -- | -- | 193 | 193 | 182 | -- | 182 | 354 |
| Hard maple | | | | | | | | |
| Minnesota | 27 | -- | -- | 27 | -- | -- | -- | 27 |
| Wisconsin | 160 | 3,731 | 2,291 | 6,182 | 398 | 772 | 1,170 | 7,352 |
| Michigan | -- | 66 | 1,505 | 1,571 | -- | -- | -- | 1,571 |
| Outside Lake States | -- | 98 | 1,540 | 1,638 | -- | -- | -- | -- |
| Total | 187 | 3,895 | 5,336 | 9,418 | 398 | 772 | 1,170 | 8,950 |
| Soft maple | | | | | | | | |
| Minnesota | 72 | -- | -- | 72 | -- | -- | -- | 72 |
| Wisconsin | 104 | 784 | 72 | 960 | 76 | -- | 76 | 1,036 |
| Michigan | -- | -- | 183 | 183 | -- | -- | -- | 183 |
| Outside Lake States | -- | 15 | -- | 15 | -- | -- | -- | -- |
| Total | 176 | 799 | 255 | 1,230 | 76 | -- | 76 | 1,291 |
| Red oak | | | | | | | | |
| Wisconsin | 631 | 6,154 | 326 | 7,111 | 868 | 8 | 876 | 7,987 |
| Michigan | -- | 92 | 300 | 392 | -- | -- | -- | 392 |
| Outside Lake States | 451 | 1 | 224 | 676 | -- | -- | -- | -- |
| Total | 1,082 | 6,247 | 850 | 8,179 | 868 | 8 | 876 | 8,379 |
| White oak | | | | | | | | |
| Wisconsin | 41 | 124 | -- | 165 | 1 | -- | 1 | 166 |
| Michigan | -- | 3 | -- | 3 | -- | -- | -- | 3 |
| Outside Lake States | -- | -- | 309 | 309 | -- | -- | -- | -- |
| Total | 41 | 127 | 309 | 477 | 1 | -- | 1 | 169 |
| Walnut | | | | | | | | |
| Michigan | -- | -- | -- | -- | 7 | -- | 7 | 7 |
| Outside Lake States | 301 | 815 | 585 | 1,701 | -- | -- | -- | -- |
| Total | 301 | 815 | 585 | 1,701 | 7 | -- | 7 | 7 |
| Misc. species | | | | | | | | |
| Wisconsin | -- | 136 | 150 | 286 | 34 | -- | 34 | 320 |
| Michigan | -- | -- | 338 | 338 | -- | -- | -- | 338 |
| Outside Lake States | -- | 241 | 40 | 281 | -- | -- | -- | -- |
| Total | -- | 377 | 528 | 905 | 34 | -- | 34 | 658 |
| All species | | | | | | | | |
| Minnesota | 482 | -- | -- | 482 | -- | -- | -- | 482 |
| Wisconsin | 3,518 | 18,853 | 8,001 | 30,372 | 2,679 | 4,520 | 7,199 | 37,571 |
| Michigan | 173 | 332 | 8,375 | 8,880 | 283 | 410 | 693 | 9,573 |
| Outside Lake States | 994 | 1,852 | 2,957 | 5,803 | -- | -- | -- | -- |
| Total | 5,167 | 21,037 | 19,333 | 45,537 | 2,962 | 4,930 | 7,892 | 47,626 |

^{1/} Production minus exports plus imports.^{2/} Veneer logs shipped to mills outside the Lake States.

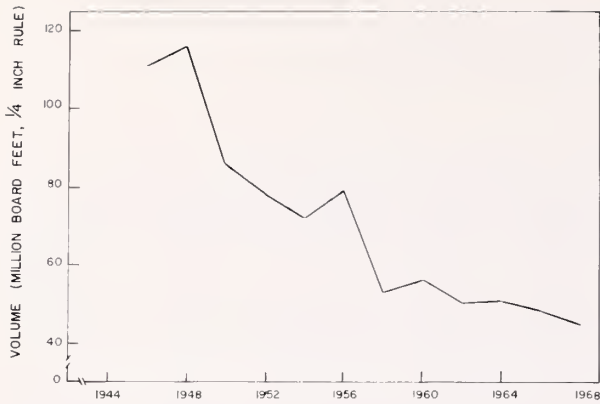


Figure 2. — Lake States veneer-log production, 1946-1968.

Mill Receipts

Lake States mills received 47.6 million board feet of veneer logs in 1968, a decline of 7.8 million board feet since 1966. Although most species declined, the major losses occurred in basswood, hard maple, and red oak. Reasons for the decline given by veneer mill operators were a desire to lower inventories, a shortage of quality

veneer logs, reduced demand for furniture veneers produced in the region, and some finished veneers or veneer products were cheaper to import from other regions than to manufacture.

Basswood, long a favorite for veneer-core stock, is being replaced by aspen and cottonwood. Demand for hard maple and red oak veneer logs dropped because furniture styles changed to those requiring more pecan and white oak.

Of the 47.6 million board feet received at the mills, 39.7 million board feet came from the region, 4.9 million board feet from Canada, and the remainder from other States. Of the total imported from Canada, white and yellow birch were predominant. Cottonwood and red oak were the principal species from States outside the region.

Wisconsin receipts were 37.6 million board feet, predominately yellow birch, red oak, and hard maple. Half the volume came from Wisconsin, while Michigan, Minnesota, and Canada supplied 21, 9, and 19 percent, respectively. The remainder was imported from other States, mainly Iowa.



(F-501919)

Processing sliced walnut veneer.

Michigan mill receipts were 9.6 million board feet. Nearly 90 percent of this volume was produced in the State. The largest volumes received were yellow birch (23 percent), white birch (20 percent, and hard maple (16 percent).

Minnesota container mills, the only type of veneer mill in the State (fig. 1), received 0.4 million board feet of veneer logs. All the logs were produced within the State and the predominant species were cottonwood and ash.

CENTRAL STATES

Production

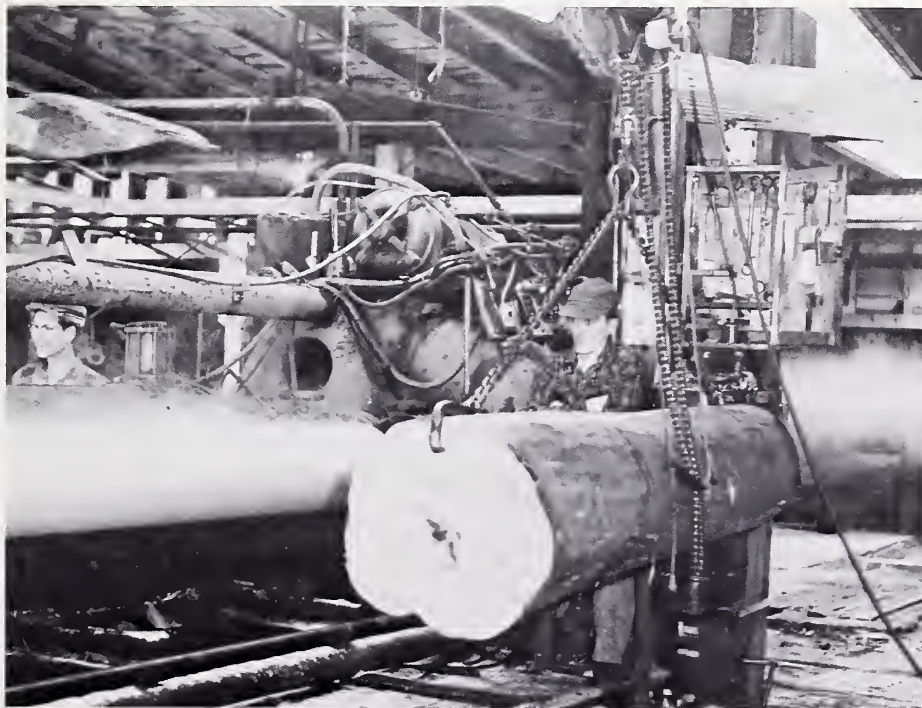
Loggers in the Central States produced 37.0 million board feet of veneer logs (table 3). There were sharp increases over 1966 in hickory, white oak, and walnut – species used for furniture veneer. Walnut, the major species produced in all the Central States, accounted for 44 percent of the total. Of the remainder, cottonwood, white oak, and hickory accounted for almost 30 percent. Walnut and hickory were the largest exports.

Indiana processed 87 percent of its own logs and 56 percent of all the veneer logs produced in the Central States. Illinois, Iowa, and Missouri exported most of their logs to other Central States.

Receipts

Log receipts at Central States mills amounted to 48.8 million board feet, slightly higher than in 1966. The receipts of hickory and white oak more than doubled. This resulted from the shift to furniture styles using these species. Walnut, while accounting for 38 percent of receipts, increased only slightly since 1966.

Almost four-tenths of the Central States log receipts were imported. Of this almost seven-tenths came from Wisconsin, Michigan, Ohio, Kentucky, and Kansas. Walnut, hickory, white oak, and cottonwood were the major species imported.



(F-501920)

Oak log being readied for processing on a rotary veneer rig.

Table 3. — Production and imports of veneer logs, Central States, 1968
(Thousand board feet, International 1/4-inch rule)

| Species | Destination | Production | | | | Imports | | | Central States receipts ^{1/} | |
|---------------|------------------------------------|------------|----------|-------|----------|--------------|--------------|--------|---------------------------------------|---------------|
| | | Indiana | Illinois | Iowa | Missouri | Region total | Other States | Canada | | Total imports |
| Ash | Indiana | 398 | -- | -- | -- | 398 | 242 | -- | 242 | 640 |
| | Other Central States ^{2/} | -- | 13 | 84 | 18 | 115 | 58 | -- | 58 | 173 |
| | Outside Central States | 12 | -- | 26 | -- | 38 | -- | -- | -- | -- |
| | Total | 410 | 13 | 110 | 18 | 551 | 300 | -- | 300 | 813 |
| Basswood | Indiana | 7 | -- | -- | -- | 7 | 23 | -- | 23 | 30 |
| | Other Central States | -- | -- | 488 | -- | 488 | 13 | -- | 13 | 501 |
| | Outside Central States | -- | 27 | 270 | 2 | 299 | -- | -- | -- | -- |
| | Total | 7 | 27 | 758 | 2 | 794 | 36 | -- | 36 | 531 |
| Black cherry | Indiana | 111 | 12 | 14 | -- | 137 | 534 | -- | 534 | 671 |
| | Other Central States | -- | 2 | 31 | -- | 33 | 23 | -- | 23 | 56 |
| | Total | 111 | 14 | 45 | -- | 170 | 557 | -- | 557 | 727 |
| Butternut | Indiana | 4 | -- | 61 | -- | 65 | 396 | -- | 396 | 461 |
| | Other Central States | -- | 2 | 38 | 1 | 41 | 32 | -- | 32 | 73 |
| | Total | 4 | 2 | 99 | 1 | 106 | 428 | -- | 428 | 534 |
| Cottonwood | Indiana | 999 | 154 | -- | -- | 1,153 | 103 | -- | 103 | 1,256 |
| | Other Central States | 186 | 1,721 | -- | 545 | 2,452 | 1,964 | -- | 1,964 | 4,416 |
| | Outside Central States | 58 | -- | 411 | 38 | 507 | -- | -- | -- | -- |
| | Total | 1,243 | 1,875 | 411 | 583 | 4,112 | 2,067 | -- | 2,067 | 5,672 |
| Elm | Indiana | 36 | -- | 24 | -- | 60 | 400 | -- | 400 | 460 |
| | Other Central States | -- | 35 | 254 | -- | 289 | 213 | -- | 213 | 502 |
| | Outside Central States | -- | -- | 363 | 2 | 365 | -- | -- | -- | -- |
| | Total | 36 | 35 | 641 | 2 | 714 | 613 | -- | 613 | 962 |
| Gum | Indiana | 513 | 110 | -- | -- | 623 | 186 | -- | 186 | 809 |
| | Other Central States | -- | 228 | -- | 22 | 250 | -- | -- | -- | 250 |
| | Outside Central States | -- | -- | -- | 3 | 3 | -- | -- | -- | -- |
| | Total | 513 | 338 | -- | 25 | 876 | 186 | -- | 186 | 1,059 |
| Hickory | Indiana | 522 | 467 | -- | 556 | 1,545 | 2,689 | -- | 2,689 | 4,234 |
| | Other Central States | -- | 55 | 32 | 345 | 432 | 260 | -- | 260 | 692 |
| | Outside Central States | 6 | 421 | -- | 618 | 1,045 | -- | -- | -- | -- |
| | Total | 528 | 943 | 32 | 1,519 | 3,022 | 2,949 | -- | 2,949 | 4,926 |
| Hard maple | Indiana | 689 | -- | -- | -- | 689 | 1,694 | 277 | 1,971 | 2,660 |
| | Other Central States | -- | -- | 56 | -- | 56 | 19 | -- | 19 | 75 |
| | Outside Central States | 138 | -- | 398 | 7 | 543 | -- | -- | -- | -- |
| | Total | 827 | -- | 454 | 7 | 1,288 | 1,713 | 277 | 1,990 | 2,735 |
| Soft maple | Indiana | 52 | -- | -- | -- | 52 | 31 | -- | 31 | 83 |
| | Other Central States | -- | 78 | 109 | 60 | 247 | 208 | -- | 208 | 455 |
| | Outside Central States | -- | -- | 73 | 15 | 88 | -- | -- | -- | -- |
| | Total | 52 | 78 | 182 | 75 | 387 | 239 | -- | 239 | 538 |
| Red oak | Indiana | 513 | -- | -- | -- | 513 | 664 | -- | 664 | 1,177 |
| | Other Central States | -- | 48 | 625 | 6 | 679 | 452 | -- | 452 | 1,131 |
| | Outside Central States | 32 | 104 | 760 | 3 | 899 | -- | -- | -- | -- |
| | Total | 545 | 152 | 1,385 | 9 | 2,091 | 1,116 | -- | 1,116 | 2,308 |
| White oak | Indiana | 2,563 | 317 | -- | 9 | 2,889 | 1,952 | -- | 1,952 | 4,841 |
| | Other Central States | -- | 87 | 49 | 42 | 178 | 116 | -- | 116 | 294 |
| | Outside Central States | 467 | 41 | 1 | 1 | 510 | -- | -- | -- | -- |
| | Total | 3,030 | 445 | 50 | 52 | 3,577 | 2,068 | -- | 2,068 | 5,135 |
| Sycamore | Indiana | 610 | -- | -- | -- | 610 | 155 | -- | 155 | 765 |
| | Other Central States | -- | 141 | 1 | 82 | 224 | 97 | -- | 97 | 321 |
| | Outside Central States | -- | 44 | -- | 286 | 330 | -- | -- | -- | -- |
| | Total | 610 | 185 | 1 | 368 | 1,164 | 252 | -- | 252 | 1,086 |
| Yellow poplar | Indiana | 1,268 | -- | -- | -- | 1,268 | 637 | -- | 637 | 1,905 |
| | Other Central States | -- | 13 | 13 | -- | 26 | -- | -- | -- | 26 |
| | Outside Central States | -- | -- | -- | 55 | 55 | -- | -- | -- | -- |
| | Total | 1,268 | 13 | 13 | 55 | 1,349 | 637 | -- | 637 | 1,931 |
| Walnut | Indiana | 6,089 | 2,315 | 1,540 | 230 | 10,174 | 2,949 | -- | 2,949 | 13,123 |
| | Other Central States | -- | 420 | 1,769 | 1,581 | 3,770 | 1,476 | -- | 1,476 | 5,246 |
| | Outside Central States | 1,291 | 250 | 120 | 486 | 2,147 | -- | -- | -- | -- |
| | Total | 7,380 | 2,985 | 3,429 | 2,297 | 16,091 | 4,425 | -- | 4,425 | 18,369 |
| Misc. species | Indiana | 453 | 16 | -- | 33 | 502 | 618 | 15 | 633 | 1,135 |
| | Other Central States | -- | 55 | 72 | 36 | 163 | 128 | -- | 128 | 291 |
| | Outside Central States | -- | -- | -- | 8 | 8 | -- | -- | -- | -- |
| | Total | 453 | 71 | 72 | 77 | 673 | 746 | 15 | 761 | 1,426 |
| All species | Indiana | 14,827 | 3,391 | 1,639 | 828 | 20,685 | 13,273 | 292 | 13,565 | 34,250 |
| | Other Central States | 186 | 2,898 | 3,621 | 2,738 | 9,443 | 5,059 | -- | 5,059 | 14,502 |
| | Outside Central States | 2,004 | 887 | 2,422 | 1,524 | 6,837 | -- | -- | -- | -- |
| | Total | 17,017 | 7,176 | 7,682 | 5,090 | 36,965 | 18,332 | 292 | 18,624 | 48,752 |

^{1/} Production minus exports plus imports.

^{2/} Illinois, Iowa, and Missouri were combined to avoid disclosure of individual mill operations.

Ginnaty, Thomas P., Jr.

1970. Veneer-log production and receipts, North Central Region, 1968. N. Cent. Forest Exp. Sta., St. Paul, Minn. 8 p. illus. (U.S.D.A. Forest Serv. Resource Bull. NC-10)

The 1968 veneer-log production and mill receipts were 45.5 and 47.6 million board feet, respectively, in the Lake States — declines of 11 and 14 percent, respectively, since 1966. The Central States produced 37.0 million board feet of logs and received 48.8 million — about the same as in 1966.

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**REPORTS ON VENEER-LOG PRODUCTION
PUBLISHED BY
NORTH CENTRAL FOREST EXPERIMENT STATION**

- Lake States Veneer Log Production and Imports Show Slight Increase in 1956, by A. G. Horn. U.S.D.A. Forest Serv. Tech. Note 496, 2 p., illus. 1957.
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As our Nation grows, people expect and need more from their forests — more wood; more water, fish, and wildlife; more recreation and natural beauty; more special forest products and forage. The Forest Service of the U.S. Department of Agriculture helps to fulfill these expectations and needs through three major activities:



- Conducting forest and range research at over 75 locations ranging from Puerto Rico to Alaska to Hawaii.
- Participating with all State forestry agencies in cooperative programs to protect, improve, and wisely use our Country's 395 million acres of State, local, and private forest lands.
- Managing and protecting the 187-million acre National Forest System.

The Forest Service does this by encouraging use of the new knowledge that research scientists develop; by setting an example in managing, under sustained yield, the National Forests and Grasslands for multiple use purposes; and by cooperating with all States and with private citizens in their efforts to achieve better management, protection, and use of forest resources.

Traditionally, Forest Service people have been active members of the communities and towns in which they live and work. They strive to secure for all, continuous benefits from the Country's forest resources.

For more than 60 years, the Forest Service has been serving the Nation as a leading natural resource conservation agency.